

**What is claimed is:**

1. An isolated Rhor polypeptide comprising a polypeptide having the amino acid sequence of SEQ ID NO: 2, its conservative variants, its active fragments, and its active derivatives.
- 5        2. The polypeptide of Claim 1 wherein the polypeptide is a polypeptide having the amino acid sequence of SEQ ID NO: 2.
3. An isolated polynucleotide comprising a nucleotide sequence sharing at least 70% homology to the following nucleotide sequence:
  - (a) the nucleotide sequence encoding the Rhor polypeptide of claims 1 or 2;
  - 10        (b) the polynucleotide complementary to nucleotide sequence of (a).
4. The polynucleotide of Claim 3 wherein said nucleotide sequence encodes a polypeptide having the amino acid sequence of SEQ ID NO: 2.
5. The polynucleotide of Claim 3 wherein said nucleotide sequence comprises nucleotides 1-2484 of the nucleotide sequence of SEQ ID NO: 1.
- 15        6. A vector containing the polynucleotide of Claim 3.
7. A genetically engineered host cell containing the vector of Claim 6.
8. A method for producing Rhor protein comprising the following steps:
  - (a) culturing the host cell of Claim 7 under the conditions suitable for expression of protein;
  - (b) isolating the Rhor protein from the culture.
- 20        9. A kit for detecting susceptibility of baldness comprising the primers which specifically amplify the Rhor gene or transcript.
10. A composition comprising a safe and efficient amount of the polypeptide of Claim 1 and a pharmaceutically acceptable carrier.

25